

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 61-207387  
 (43)Date of publication of application : 13. 09. 1986

(51)Int. CI. C07D499/00  
 A61K 31/425

(21)Application number : 60-047103 (71)Applicant : SUNTORY LTD  
 (22)Date of filing : 09. 03. 1985 (72)Inventor : ISHIGURO MASAJI  
 IWATA HIROMITSU  
 NAKATSUKA TAKASHI

## (54) PENEM DERIVATIVE, PRODUCTION AND USE THEREOF

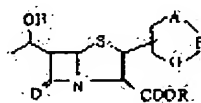
## (57)Abstract:

NEW MATERIAL: A compound shown by the formula I (R is H or allyl; A is O or methylene; B is methylene, ethylene, or carbonyl) or its salt.

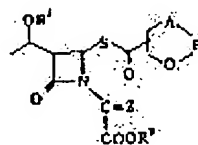
EXAMPLE: (1'R, 2"S, 5R, 6S)-2-(1'-hydroxyethyl)-2-(2"-tetrahydrofuranyl)penem-3- carboxylic acid allyl ester.

USE: Having extremely excellent effect on remedy of infectious diseases of Gram-positive and Gram-negative bacteria, etc., useful not only as a drug but also as an animal drug widely.

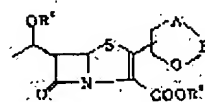
PREPARATION: For example, a phosphorus ylide compound shown by the formula II (R1 is hydroxy-protecting group; R2 is aryl, or carboxy-protecting group; Z is triarylphosphonio) is heated to give a compound shown by the formula III and optionally the protecting groups R1 and R2 are removed to give a compound shown by the formula I.



I



II



III

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's  
 decision of rejection]

[Kind of final disposal of  
application other than the  
examiner's decision of rejection or  
application converted registration]

[Date of final disposal for  
application]

[Patent number]

[Date of registration]

[Number of appeal against  
examiner's decision of rejection]

[Date of requesting appeal against  
examiner's decision of rejection]

[Date of extinction of right]

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